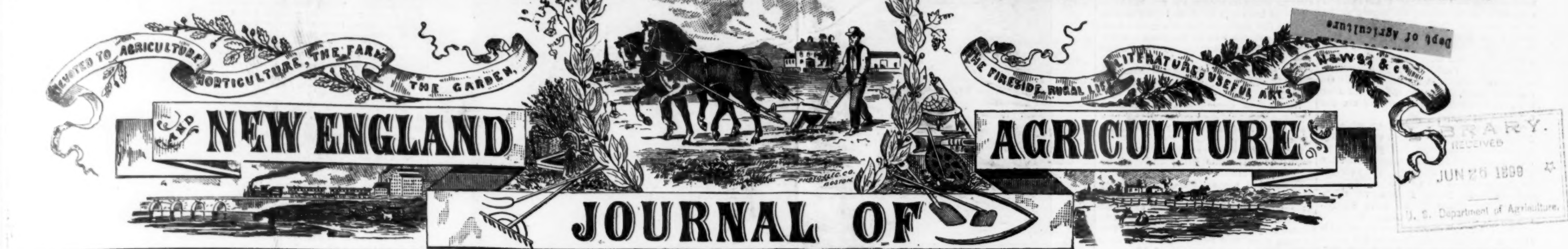


MASSACHUSETTS PLOUGHMAN



VOL. LVIII. - NO. 39.

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

MASSACHUSETTS PLOUGHMAN
JOURNAL OF AGRICULTURE
Official Organ of the N. E. Agricultural Society

MASSACHUSETTS PLOUGHMAN PUB. CO.,
Publishers and Proprietors.

A. N. DARLING, Secretary.

NO. 3 STATE STREET,
BOSTON, MASS.

NEW YORK OFFICE,
86 NASSAU STREET, NEW YORK CITY

TERMS:

\$2.00 per annum, in advance. \$2.50 if not
paid in advance. Postage free. Single copies
5 cents.

By paper discontinued, except at the option of the
proprietor, until all arrears are paid.

All persons sending contributions to this
Journal for use in its columns must sign
their names, not necessarily for publication, but
as a guarantee of good faith, otherwise they will
be considered as anonymous. All matters
submitted for publication should be written on
one side of the paper, with ink, and upon but one side
of the paper.

Correspondence from particular farmers, giving
the results of their experience, is solicited.
Letters should be signed with the writer's real
name, in full, which will be printed or not, at
the writer's wish.

The Ploughman offers great advantages to
advertisers. Its circulation is large and among the
most active and intelligent portion of the com-
munity.

AGRICULTURAL.

After Effects of Underdraining.

The fear is often expressed by beginners
in underdraining that the removal of so
much water as the deep drains carry off
will dry out the soil more than it should be,
and thus make it as much too dry as before
it had been too wet. But the fact is over-
looked that it is only the surplus water
which soil holds beyond the point of saturation
that is carried off in the underdrain,
and that the capacity of the soil for absorb-
ing water is every year being increased so
long as the underdrains keep in working
order. Where the drain is laid deep in the
ground the absorptive capacity of the soil
is in some cases so greatly increased
that there are very few times in the course
of a year when any water will reach the
drain, and these times will be when there is
so much water in the soil that it is impos-
sible to get rid of it, and the water is
being constantly supplied to be drawn from
the soil. With an underdrain four feet
deep no summer rain can soak down to the
drain. If the heaviest rainfall starts the
drain to doing its duty it is conclusive proof
that a way is opening from the surface to
the soil, through which the water drains
in a stream, and that it has not been
complicated by water soaking down
through the soil. That requires much more
time every year the underdrain has been
in.

This is especially the fact where the land
has often been seeded with clover. The
deep roots of this plant, reaching into the
soil and down to the depth of the under-
drain, so increase its capacity of holding
water that where land has been long
seeded with clover it often happens that an
entire year will pass without any outflow
from the outlet of the drain. The soil is
kept moist enough to be expanded by
frost, and with each expansion its capacity
to hold more water is increased.
When the soil comes into this condition
the clover roots do an important part
of the underdraining, for they make the
water course in which the water on the
surface is carried below the point where it
will interfere with growing crops.

Whenever a wet place in the field is
thoroughly drained the soil over the drain
appears to have risen. Doubtless it is the
fact that water no longer covers its surface
and gives this appearance, though there is
perhaps a real rise of an inch or possibly
more through the expansion by freezing of
moisture in the soil.

As the growing of clover
increases the vegetable material in the
soil, that being derived from the clover
leaves in a positive addition to the soil.
In the other hand, when continued cultiva-
tion exhausts vegetable matter in the soil
the surface is lowered, especially if the
land is wet so that no deep freezing is
possible by which to expand and raise it.

We find that it is to be seeded with grass
or clover does not need so thorough under-
draining as that which is to be kept under
permanent cultivation. Where clover grows
the roots are all to the surface, pushing
water from the soil. This is done
naturally after the heaviest rainfall
when full-grown clover the day after
it rains will find the soil about as dry as it
was before, though the rain had been
heavy enough to get down to the depth of
the furrow, if there be enough sunshine on
the surface to evaporate its
moisture rapidly. On cultivated land, unless
the surface is under a red sap, much
water would not find its way down to the
depth of the furrow, and a single day where
there was a good growth of clover. A soil
that is good for growing clover is a soil
that is good for growing any other crop
that is raised on the land that has lain
under the furrow.

While the plowable at all times the
land underdrained soil cannot suffer from
excess of moisture. Its absorptive capacity
is so deep into the soil that as the
surface exhausts the moisture
it will come to the surface by capillary attraction, and
it will come to the warmer air outside the

temperatures of each are equalized, forming
dew on the surface of the ground, which is
often seen on newly plowed surfaces that
were dry the night before. The more deeply
the soil is underdrained the greater the
amount of dew that will be formed on its
surface. This watering of soil by means of
dew is often a very important means of
saving crops from the effects of severe
drought. The effect is increased by culti-
vating crops early in morning and late in
the afternoon, in the one case to im-
prison the dew that has fallen during the night, and
in the other to bring to the surface some
soil that being cooler will condense more
moisture from the air and thus increase
the dewfall. We believe also that sowing
of gypsum, which greatly increases the
amount of dew is also helpful, as it increases
the dew that can be plowed under before it
has evaporated. This is a well-drained deep
soil receives a greater amount of fertilizing
dew than the shallow soil that is quickly
warmed through. It is the effect of under-
draining in deepening soil that makes it
tend to increase in fertility, although the
case with which it is cultivated makes it
possible to grow larger crops from such
soil, and thus exhausts fertility as fast as it
is made. Yet that is the summing up of
the farmer's work; making his land rich so
that he can grow larger crops from it, and
thus set up the plant food with which he
has filled it.

secretary McKee, inasmuch as he would
have cattle facing outward toward the win-
dow instead of toward a central feeding
door. He says:

"I think I should have a barn in two
parts, the main barn for the storage of hay,
grain, etc., with wing running from the side
wide enough for double tieup. Would have
windows on both sides and end, and cows
facing the windows. Would have water
before the cow, and feed from ear run on
track from main barn; also would have

length and through the walls of the barn,
giving the wind a chance to draw through.
Out of this lead four perpendicular tubes to
the top of barn, with holes out in tieup to
draw off foul air. This works all right and
does not make it cold for cattle."

George N. Holland, member of the board
from Penobscot County, says: "For the
'health of the animals' a building should
be attached to the barn for a sheep, connec-
tion to the barn to be had by doors, through
which the hay and grain should be taken to

with our own ideas better than do others.
We do not endorse all the opinions we have
quoted, but they are valuable "for a" that."

Farm Hints.

Farmers often do not realize how much
water is removed from their land by a good
system of tile draining. A writer in the
National Stockman tells of examining a
drain which received the drainage from a
field of about nine acres. It had not rained
for 48 hours, but the water was coming

ions of green fodder to the acre, which he
used as a soiling crop for sheep and lambs.
J. S. Woodward of Lockport, N. Y., ad-
vises sowing the Dwarf Essex rape as early
in the spring as the ground will work fine,
and using 24 to 30 pounds of seed to the
acre in drills 30 inches apart. He says an
acre of it on good land will furnish an
abundance of green feed for from 25 to 50
spring pigs until they are fit for market,
and after that eight or 10 lambs all the fall.
Owing to its laxative quality stock should
have an old pasture on which to run, or be
given hay or other dry feed each day.

For the pigs, he would give them while
on the rape all the coarse wheat mid dings
they would eat until they weighed 100
pounds each, then add one-third as much
corn meal by weight to the middings, and
gradually increase until there was equal
weight of middings and corn meal, so as to
have the pigs ready.

Hay and Forage.

Last year the demand for hay was so
slack that many farmers neglected the
hay fields last fall and even plowed some
under for other crops; but the unusually
good market which has prevailed for
some time now has caused regret among
those who too hastily did away with their
hay crops. Nevertheless the crop prom-
ises to be moderately fair this year, and in
view of the good demand for it unusual
attention should be given to the process of
cutting and curing it for market. It is
true that the Government buys large
quantities of second grade hay for its
use, and this factor has been one of the
most important in the market this
year, but the Government never pays the
highest prices. Bidding for large quanti-
ties as it does, it secures the minimum
prices for the quality of hay supplied.
This takes from the market large quanti-
ties of surplus hay, and gives other grades
a better opportunity to find customers.
It helps to make lower grades more val-
uable, but rarely affects the best quality.
This letter sells itself, and in any season
it will find customers when low grades are
a drug in the market. Consequently it is
the only kind of hay that the farmer can
conscientiously strive to produce.

But prime hay must consist of first-class
timothy, cured and kept in the best possible
way. It must be free from mold, stain,
odors or any other defects. If one has a
fine timothy field it will pay to devote con-
siderable time and labor to cutting and cur-
ing it. In the end all of the extra labor
will be paid for.

But as there are many fields of grass
that will not make prime timothy hay, it
is a question sometimes what to do with
it. If there are indications of a good
market, it will pay to give as much atten-
tion to curing this hay as the best
timothy, for its grades approximating
prime will sell only for a few cents a
hundredweight less. A good deal of the
final valuation of this hay will depend
upon the cutting, curing and packing for
market. This more often determines the
selling price of hay than the actual con-
dition of the grass before cutting. But if
the hay is indifferent and bad in the field it
will pay to use the land for something
else. A run-down hay field is of little real
value in these days of close competition.

W. E. FARMER.

New Hampshire.

Spraying Crops for Frost.

Prof. S. T. Maynard, pomologist to the
Massachusetts State Board of Agriculture,
sends out a bulletin in which he claims that
most farm and garden crops can be pro-
tected from insects, blights and fungus
diseases by spraying, and says that to
spray whenever the conditions are favor-
able to the development of these pests is
the only safe business principle for the
farmer, the fruit grower or the gardener to
follow.

The apple crop can be saved from injury
by the codling moth, the codling moth,
the apple scab, the cedar-apple fungus
and other fungus pests may be destroyed
by the use of the Bordeaux mixture. Both
these applications can be combined and
used at one time.

The peach tree can be kept under
control by the use of kerosene. Paris green
will keep the fruit from becoming wormy,
and Bordeaux mixture and copper sulphate
solution will prevent leaf blight and the
cracking of the fruit, as they also will the
leaf blight, black knot and brown rot of
fruit on the plum tree. The plums can be
largely saved from injury by the use of Paris
green.

The peach is not as much benefited
by spraying as some of the other
fruits, but the use of Bordeaux mixture
will do much to prevent the leaf
curl, the shot-hole fungus, and the rot-
ting of fruit on the tree. The are-
nate of lead should be used on the peach
instead of Paris green to keep off the cur-
culio, and the peach aphid or house may be
destroyed either by kerosene emulsion, or
a mixture of kerosene and water applied by
a pump especially designed for mixing them.

These remedies are equally adapted to
use for the cherry aphid, which causes the
leaves of the cherry tree to curl and stop
growing. The rotting of the fruit just as it
begins to ripen may be prevented by spray-
ing after every rain for a week or two when
the fruit is ripening, with a copper sulphate
solution, four ounces to 50 gallons of water.
Paris green cannot be safely used on cherry
tree foliage.

The leaf blight and rust on branches and
fruit of the quince can be destroyed by
spraying with Bordeaux mixture, but it
should not be applied when the fruit is
more than half grown.

Mr. Robert B. Sherrill, secretary and
treasurer of the Northern New York Trot-
ting and Pacing Circuit, informs us that all
the stakes in the circuit have filled satis-
factorily. Horses are to be named the first
of July, when second payment is due, and
Mr. Sherrill says that if there are any nomi-
nators who desire to sell their entries they
can communicate with the secretaries of the
different meetings.

cellar under whole barn, separated by parti-
tion. The portion under main barn should
be used for storage of farm machinery.
Would have stable for horses, with base-
ment for horse, carriage and harness room
in stable, stable to connect with house."

Here is another from New Sweden: "My
idea of a convenient barn and stable is to
have it all connected, either in one frame,
or a main barn with stable attached, so it
would not be necessary to go out of doors to
care for the stock, not even to water them.
I would not have any feeding stuff, hay or
straw, placed over the stable, as the gases
from the stable injure them. Only straw
used for bedding should be placed there.
Have plenty of windows to admit sunlight,
make it warm and free from draughts, but
have it thoroughly ventilated. Have the
part for the horses partitioned off from
the cow stable, and if possible,
have the small stock separate, too, if
it does not necessitate carrying the
feed long distance. If there is a good
slope to the land, have a basement cellar
for manure, but I hate to see these low,
dark, damp basement stables, with horses,
cows, calves, hogs, hens and sheep crowded
together in a stifling, reeking hole, in many
places with the spring water coming up in
their stalls several weeks each year. If
the land is too level for a manure cellar,
then have a shed, and keep hogs on the
manure all the time. Excavate the top loam
to get a solid bottom, if you cannot afford a
cement floor. Don't throw the manure out
under the eaves. - Y. T. Landvall."

N. B. Young of Hancock County has
lately built a new barn, and we like his
plan so well that we give his description of
it in full.

"We built a new barn a year ago, to
cover all our farm animals and most of our
crops under what is practically one roof.
The main barn is 41x51, 20 feet posted,
with a square roof, on top of which for ventila-
tion is a cupola with slat blinds and shut-
ters. The main part extends 50 feet from
east to west, with doors in each end, which
will admit of driving through the center bay
which is ten feet wide in the clear. On the
south side of this floor is the cow tieup, of
which I will write further on. On the north
side is a ground now, as it is commonly
termed, which is 40x18 feet and gives a
hoist for a hay fork when filling of about
30 feet from the bottom. At each end of
this now is an enclosed passage seven feet
high and 8 feet wide, which connects the
main barn with a carriage house, stall room
and also a hog house, which are under a
shed built on the north side and extending
around the west corner, giving a floor space
17x83 feet. In the east end of this is a
large door which opens into a carriage
room 17x45, which gives plenty of room
for our carriages and harnesses, and
also in the rear end, for a grain closet.
Still further on, and in the west end of
the shed (which I should have said was
built as high posted as we could have it)
is the stall room for four horses, but it is
separated from all other parts of the build-
ing by tight partitions, and is light, well ven-
tilated, and can be kept free from draughts
of cold air. The horses are fed from the
loft overhead, which connects with now
in the main part, while the manure is
thrown out into the part which ex-
tends around on the west side, and on
which the hogs run at will. The entire
shed is oiled with matched pine over-
head to keep all dust out of the lower
rooms. The south side of our barn sits
on the crest of a little hill, which slopes off
and gives us a chance, by digging out the
bank, to set a manure shed on this side and
let the roof come below the bottoms of five
large windows which supply sunshine for
the cows. The tieup is 15 feet wide and
will accommodate 15 cows. Under the
cribs is an air chute, running the whole

length and through the walls of the barn,
giving the wind a chance to draw through.
Out of this lead four perpendicular tubes to
the top of barn, with holes out in tieup to
draw off foul air. This works all right and
does not make it cold for cattle."

George N. Holland, member of the board
from Penobscot County, says: "For the
'health of the animals' a building should
be attached to the barn for a sheep, connec-
tion to the barn to be had by doors, through
which the hay and grain should be taken to

with our own ideas better than do others.
We do not endorse all the opinions we have
quoted, but they are valuable "for a" that."

Farm Hints.

Farmers often do not realize how much
water is removed from their land by a good
system of tile draining. A writer in the
National Stockman tells of examining a
drain which received the drainage from a
field of about nine acres. It had not rained
for 48 hours, but the water was coming

ions of green fodder to the acre, which he
used as a soiling crop for sheep and lambs.
J. S. Woodward of Lockport, N. Y., ad-
vises sowing the Dwarf Essex rape as early
in the spring as the ground will work fine,
and using 24 to 30 pounds of seed to the
acre in drills 30 inches apart. He says an
acre of it on good land will furnish an
abundance of green feed for from 25 to 50
spring pigs until they are fit for market,
and after that eight or 10 lambs all the fall.
Owing to its laxative quality stock should
have an old pasture on which to run, or be
given hay or other dry feed each day.

For the pigs, he would give them while
on the rape all the coarse wheat mid dings
they would eat until they weighed 100
pounds each, then add one-third as much
corn meal by weight to the middings, and
gradually increase until there was equal
weight of middings and corn meal, so as to
have the pigs ready.

Hay and Forage.

Last year the demand for hay was so
slack that many farmers neglected the
hay fields last fall and even plowed some
under for other crops; but the unusually
good market which has prevailed for
some time now has caused regret among
those who too hastily did away with their
hay crops. Nevertheless the crop prom-
ises to be moderately fair this year, and in
view of the good demand for it unusual
attention should be given to the process of
cutting and curing it for market. It is
true that the Government buys large
quantities of second grade hay for its
use, and this factor has been one of the
most important in the market this
year, but the Government never pays the
highest prices. Bidding for large quanti-
ties as it does, it secures the minimum
prices for the quality of hay supplied.
This takes from the market large quanti-
ties of surplus hay, and gives other grades
a better opportunity to find customers.
It helps to make lower grades more val-
uable, but rarely affects the best quality.
This letter sells itself, and in any season
it will find customers when low grades are
a drug in the market. Consequently it is
the only kind of hay that the farmer can
conscientiously strive to produce.

But prime hay must consist of first-class
timothy, cured and kept in the best possible
way. It must be free from mold, stain,
odors or any other defects. If one has a
fine timothy field it will pay to devote con-
siderable time and labor to cutting and cur-
ing it. In the end all of the extra labor
will be paid for.

But as there are many fields of grass
that will not make prime timothy hay, it
is a question sometimes what to do with
it. If there are indications of a good
market, it will pay to give as much atten-
tion to curing this hay as the best
timothy, for its grades approximating
prime will sell only for a few cents a
hundredweight less. A good deal of the
final valuation of this hay will depend
upon the cutting, curing and packing for
market. This more often determines the
selling price of hay than the actual con-
dition of the grass before cutting. But if
the hay is indifferent and bad in the field it
will pay to use the land for something
else. A run-down hay field is of little real
value in these days of close competition.

W. E. FARMER.

New Hampshire.

Spraying Crops for Frost.

Prof. S. T. Maynard, pomologist to the
Massachusetts State Board of Agriculture,
sends out a bulletin in which he claims that
most farm and garden crops can be pro-
tected from insects, blights and fungus
diseases by spraying, and says that to
spray whenever the conditions are favor-
able to the development of these pests is
the only safe business principle for the
farmer, the fruit grower or the gardener to
follow.

The apple crop can be saved from injury
by the codling moth, the codling moth,
the apple scab, the cedar-apple fungus
and other fungus pests may be destroyed
by the use of the Bordeaux mixture. Both
these applications can be combined and
used at one time.

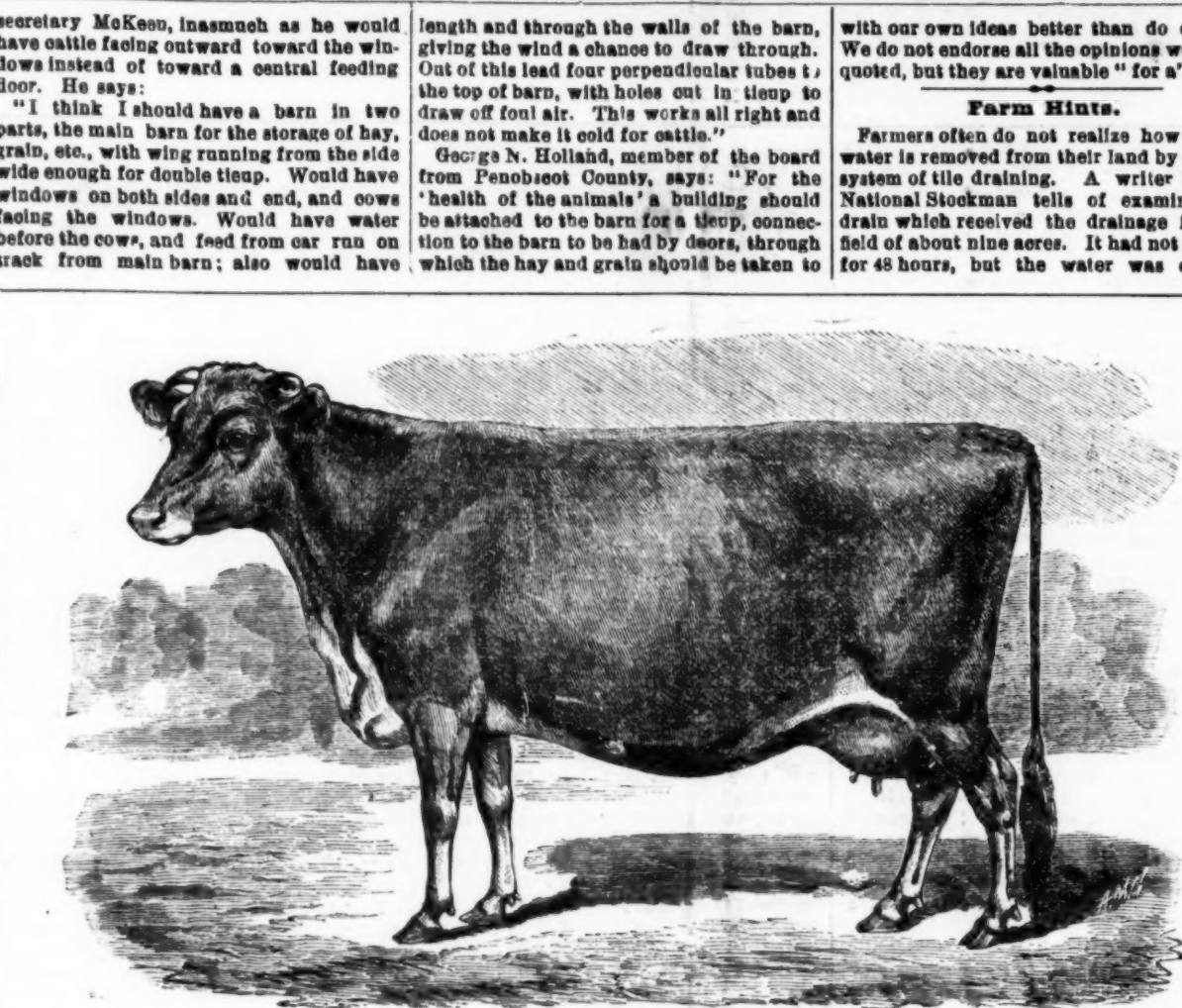
The peach tree can be kept under
control by the use of kerosene. Paris green
will keep the fruit from becoming wormy,
and Bordeaux mixture and copper sulphate
solution will prevent leaf blight and the
cracking of the fruit, as they also will the
leaf blight, black knot and brown rot of
fruit on the plum tree. The plums can be
largely saved from injury by the use of Paris
green.

The peach is not as much benefited
by spraying as some of the other
fruits, but the use of Bordeaux mixture
will do much to prevent the leaf
curl, the shot-hole fungus, and the rot-
ting of fruit on the tree. The are-
nate of lead should be used on the peach
instead of Paris green to keep off the cur-
culio, and the peach aphid or house may be
destroyed either by kerosene emulsion, or
a mixture of kerosene and water applied by
a pump especially designed for mixing them.

These remedies are equally adapted to
use for the cherry aphid, which causes the
leaves of the cherry tree to curl and stop
growing. The rotting of the fruit just as it
begins to ripen may be prevented by spray-
ing after every rain for a week or two when
the fruit is ripening, with a copper sulphate
solution, four ounces to 50 gallons of water.
Paris green cannot be safely used on cherry
tree foliage.

The leaf blight and rust on branches and
fruit of the quince can be destroyed by
spraying with Bordeaux mixture, but it
should not be applied when the fruit is
more than half grown.

Mr. Robert B. Sherrill, secretary and
treasurer of the Northern New York Trot-
ting and Pacing Circuit, informs us that all
the stakes in the circuit have filled satis-
factorily. Horses are to be named the first
of July, when second payment is due, and
Mr. Sherrill says that if there are any nomi-
nators who desire to sell their entries they
can communicate with the secretaries of the
different meetings.



JERSEY COW, LEONORA.
Winner of Several First and Special Prizes at English Cattle Shows.

Paris green destroys all the insects which
attack the grape vine, and the black rot,
the downy and powdery mildew, and the
anthracnose or rust can be prevented from
doing harm by the use of Bordeaux mix-
ture and copper sulphate solution. Do not
use Bordeaux mixture after the grapes are
half grown. Spraying the vines every year
regularly seems to give them more strength
and give larger and better crops after a few
years of treatment.

The Bordeaux mixture easily controls the
orange rust and the leaf blight of the ras-
pberry and blackberry, which are the two
most serious obstacles to growing those
fruits, and also the leaf blight which causes
the leaves of the currant bush to fall off in
August. Helio bore used as a spray, or put
on in dust form when leaves are wet with
dew or rain, kills the currant worm. The
bushes need close attention after the leaves
open, to apply it as soon as the worms
appear.

The use of Bordeaux mixture as a spray
much reduces the rust on the strawberry,
and if Paris green is mixed with it, it pre-
vents the black paria and the crown borer
from doing as much damage as they might
otherwise do.

Insecticides and fungicides are necessary
if the best results are to be obtained in
growing potatoes. Use either corrosive
sublimed dip or sulphur upon the seed to
prevent scab, and Bordeaux mixture with
Paris green to kill the flea beetle and the
Colorado beetle; at the same time the Bor-
deaux mixture largely or perhaps entirely
prevents the vines from attack by potato
rot, fungus and leaf blight.

The Bordeaux mixture used at the right
time largely prevents leaf blight and rotting
of tomatoes and the fungus pests of the
celery plant. On these it should be used in
seed bed as well as in the field to insure
success. Spraying with this or with copper
sulphate solution will keep under control
the onion rust, asparagus rust, grain rust
and scab, as well as many of the insect
pests on nearly all crops.

Every farmer and gardener should pre-
pare himself with the materials for mixing
these insecticides and fungicides, and ap-
paratus for using them, and with spraying
candelars and directions for mixing, which
are sent out by experimental stations and
published by most agricultural newspapers.

One may have the small hand pump for
a small garden. The knapsack pump is
adapted for use in shrubs, small trees and
crops where the barrel pump cannot be
easily taken. The barrel pump is needed
for large trees and vines, and there are ma-
chine pumps for large orchards and vine-
yards. All pumps in which copper sul-
phate solution is used should be made of
brass, as this soon corrodes iron.

Much depends upon the nozzle used. The
Vermorel nozzle and the Bordeaux nozzle
are both good, and throw a fine spray, but
the small particles of lime or other sub-
stances must be strained out of the spraying
liquid.

Paris green is the best known and most
effective of the insecticides, and may be
used at the rate of two pounds to 150 gal-
lons of water. London purple is less reli-
able because more variable in its strength.
The peach, Japanese plum and the cherry
foliage may be injured by the use of Paris
green, but the arsenate of lead is equally
effective on them, and not injurious to the
foliage, even when used in large quantities.

Kerosene emulsion, or kerosene and
water applied in a fine spray or mist, are
effective against many insects, but never
should be used in moist or cloudy weather.
Select bright, dry days to use this.

Pyrethrum, known also as Persian or Dal-
matian powder, acts quickly upon delicate
insects like the cabbage worm, currant
worm, etc., and does best if applied just at
night.

The solution of one pound of sulphate of
copper in 25 gallons of water should be used
as a fungicide only when trees are dormant.
After leaves start, one-fourth of a pound in
50 gallons of water is enough. The spray-
ing should be repeated after a heavy rain
as it washes off quickly.

Transplanting Lettuce.

Even a small head of lettuce may be
made to produce a good supply for the
family, if, after it is pulled and the leaves
are trimmed off for use, the root is carefully
set out in a rich place and shaded until it
is established itself. It is a surprise how
rapidly the transplanted lettuce will grow.
When it starts from the seed, which is very
small, the lettuce grows very slowly, and it
seems as if it never will get large enough
to use. But in transplanting a great num-
ber of new roots set forth, and these make
tender and succulent lettuce
leaves, which are much better than those
growing slowly. Often have we seen heads
of lettuce that have been transplanted once
or twice that will on a single plant produce
enough for a small family, and most of this
growth is made within two or three weeks
from the previous cutting and transplant-
ing. In fact, so successful is this method
that we have known housewives to take up
lettuce plants in the fall and try to grow
them in tubs filled with rich soil in the
house. But the conditions cannot be kept
in most farmhouses like those of summer
out of doors. In a greenhouse with bottom
heat lettuce can be grown in winter as well
as in summer. It needs less heat than most
other house plants, and can be grown far-
ther from the fire, but must always be
well supplied with water.

Mr. Robert B. Sherrill, secretary and
treasurer of the Northern New York Trot-
ting and Pacing Circuit, informs us that all
the stakes in the circuit have filled satis-
factorily. Horses are to be named the first
of July, when second payment is due, and
Mr. Sherrill says that if there are any nomi-
nators who desire to sell their entries they
can communicate with the secretaries of the
different meetings.

MASSACHUSETTS PLOUGHMAN

JOURNAL OF AGRICULTURE

NEW ENGLAND

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

MASSACHUSETTS PLOUGHMAN

JOURNAL OF AGRICULTURE

NEW ENGLAND

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

MASSACHUSETTS PLOUGHMAN

JOURNAL OF AGRICULTURE

NEW ENGLAND

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

MASSACHUSETTS PLOUGHMAN

JOURNAL OF AGRICULTURE

NEW ENGLAND

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

MASSACHUSETTS PLOUGHMAN

JOURNAL OF AGRICULTURE

NEW ENGLAND

BOSTON, MASS., SATURDAY, JUNE 24, 1899.

WHOLE NO. 2999.

POETRY.

(Original.)

THE DOUBTER.
The doubter is a man who does not
Not seek me now and here?
Long on earth's pathway have I trod,
Yet still I do not appear.
Onward, "I do the planted seed
Wait for the action now,
To pay to it a special heed
For its vast work to begin?
Can man, will like the seed, distrust
His Father's loving care?
When towards the sky the angels have thrust
Their wings and say, "Why not?"
"Seek thou first God, and thou shalt find
That he is seeking thee;
That thou hast been to spirit blind,
And now at length doest see."
Newbury, Mass. — ARTHUR E. LOCKE.

THE WARNING.

I was walking in the meadow when I heard the
lanternes gleaming;
Sweetest sight the little birds of May—the young
lambs on the lea;
Upon the crest of Siletomon the round, gold
moon was leaning;
She peered from the hillside as the banners
seemed to me.
I was walking by the window when I heard the
death watch beating;
The silence started tingling like the wind
within a tree;
High and far through cloud and air the silver
moon was beating;
But the night began to darken as the death
watch beat for me.
I was sleeping on my pillow when I heard the
dead man on line;
The dead man who lay down at the bottom
of the sea;
Westward through gloom and gray I saw
the dim moon fall;
Now I must rise and go to him, the dead who
cries on me.
—Alice F. Long, in The Speaker.

MY LITTLE LOVE.

My little one's eyes are as blue as the sea,
They are blue as the skies above;
Her lips are coral red, teeth white as the pearls,
And her voice speaks the language of love.
Tossing flying swift, where the incoming tide
Breaks, light as the wind driven spray;
When in foam she is swept from the crests
Of the waves, as it drifts over the bay.
Her smile, so seductive, is silvery sweet,
Her laugh, like the tinkling of bells, is clear;
She's a creature of impulse, of whims and of fits,
And a creature of bewitching, my fair, my dear.
O'er the Ocean of Life may she sail onward
Lapsly,
And O'er the angels guard her from storm and
calamity;
Until she comes from the turmoil of tempest or ship-
wreck;
My little love, on eternity's shore,
—Gertrude Davidson, in St. Paul's.

AN OLD FAN.

A dainty thing, with rare illumination,
Of lace grown yellow, line of faded gold;
Where once the sunbeams shone, and faintly
Worn by moon and candle, glowing, fold by fold.
Age and use, these tattered colors trembled
With new-born life, thrilled from the hand of art;
Each shadowy fancy, by the touch of genius,
Gave its beauty on "my lady's" heart.
Swinging from slender arms, in old cottages,
Or in rooms, languorous, mellow, late minutes
With pleasure vie, to give to the world
One marvel of the fan that forgets?
In Louis's court, under great candlesticks,
The tale of love, traced by the painter's hand
Made the sweet test for many a declaration,
That gave joy to a king's land.
Now all are gone, king, queens and courtiers
Faded
Into of life; still some grace is there—
The magic of the past, its rare traditions
Live in thy dim, fair realm, old fan of mine.
—Mary A. Danforth, in Collier's.

THE CLUB WOMAN.

Libraries, both the public and
Her private one at home,
She turned in both night and day,
And never ceased to roam.
A thousand books her eyes consumed,
In Spanish, Latin, Greek,
Savante, Hebrew, French, Chinese,
Both modern and antique.
She would not even stop for meals;
Without a parrot she read,
And in a favor, for night and days,
She never went to bed.
Her house was filled from wall to wall
With all the notes she made,
And when her husband would read,
He had to use a spade.
At last the great day came around
For which she'd toiled and planned;
But the culture club she stood,
Her paper in her hand.
Then after all her work (it told,
And burning of the gas,
She had the awful news to make
This last discovery:
"You must excuse my paper, for
I'm so ashamed of it,
But, honestly, I've been too rushed
To study up a bit."
—Kansas City Independent.

HERMIEFFER.

As one who walks in the night
From the pillow lifts his head,
While of his comes a sudden dread,
And yet he dare not seek a light.
And he will not search for light;
There may be sought, he does not know,
But let to study the mystic made,
Believe and hug his trembling doubt.
O' herons' song, by thoughts oppressed
Of that dead future, lay, yet stir,
Ours to essay the question here;
Death will respond or else give rest.
—E. B., in Lantern World.

A PARADOX.

"It's paradoxical, but true,
That love is blind, and a sixth toe.
Love blind? That cannot be,
It had to be blind to see.
To one so fair,
Love blind? That must be true,
To make one such as she.
My presence here,
That love is blind yet seeth too
Is paradoxical, but true."
—Pall Mall Gazette.

While bath charms to soothe a savage breast,
To feed and feed a kindred car,
I read that thing that has made me
And, as with living souls, have been informed
By magic numbers and persuasive sound.
—Oongreave.

—Islands die too fast," he said,
But then why should we mourn?
For every one that dies is
At least two more are born.
—Chicago News.

—The speaker's shoes are vacant—
We ask, if it be me,
Is there any other steedman who
Can fill them full of me?
—Detroit Journal.

—Of dollars past and wisdom small
(In conversation) (Sings it)
A bore is one who lives all
And never, never knows it!
—John Ottwell.

MATTIE'S LOVE AFFAIRS.

He had been away from his hill about three
months, and he was a little tired, for twenty
days or a month he could not be made to smile.
He had been away from his hill about three
months, and he was a little tired, for twenty
days or a month he could not be made to smile.
He had been away from his hill about three
months, and he was a little tired, for twenty
days or a month he could not be made to smile.

For a time he felt such a dizziness that he
could not see. He was a little tired, for twenty
days or a month he could not be made to smile.
He had been away from his hill about three
months, and he was a little tired, for twenty
days or a month he could not be made to smile.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

"Home."
"That's not true!"
"Nor was it true. He would have gone home,
had he been in the way. But there she was."
"Mattie, you want to ruin yourself!"
exclaimed Nanna, in a strange tone of voice.
"Stay here, and I will go away myself!"
She turned again to the window, where a
little smile Mattie in the stomach, which
was beyond his comprehension.

"You shall remain alone, and be contented!"
exclaimed Nanna, and she turned, and
suddenly turning round with an altered countenance,
exclaimed in her face: "You plowboy!"
Mattie stood somewhat amazed, but presently
sat down once more, content not to understand
anything further. A breeze stole in at the
window and caressed his cheeks; and, little by
little, Mattie, Nanna, trying, pause, and dried
sauces began to dance in a circle before him,
till he ended by playing the bass fiddle for the
ball himself. Sometime, like two hands clasping
his forehead, he pressed close against his
forehead, and he gave a start, and burst
out laughing. What things dreams are now and
then! Why he could have sworn that it was
Nanna!

Nanna reappeared.
"Don't go away," she urged.
"Why not?"
"Because I tell you not to go."
Nanna laughed, Mattie did likewise, and
caught her hands in his. She let him have his
way, while on her breast she had the head that put
Mattie in mind of the tassel of corn.
"No, Nanna, I must go. If I have behaved
badly to you, forgive me!"
She watched her hands away, answering
dryly: "No!" and walked across the kitchen.
He was breathless with impatience to be off.
Nanna was waiting for him. She had promised
him that when he was free, even to the end
of the earth.

He was satisfied with less.
"Lepina, dear Lepina," said he, "I will
lead you up to my home, and we'll live like
the sun of the Church. You shall sit on the
cow, and I will work as of old. You shall see
how I can do it. You shall see how I can do it."
Lepina bent her head still further. She was
ready to burst with laughter; she attended to the
cow. She was the wife of that block of flesh?
Mother Lepina delivered her!

They were in the Via Montebello. In the
distance the tall needles of the Casone made
one open one's mouth, to breathe with all one's
lungs; while from the Fosse Macinaria rose the
exhalations from stagnant water and sun-fermented
mud.
Lepina looked at the beautiful carriage; that
Mattie had bought for her with a little pile of
money hoarded for a different and nobler pur-
pose—when he was still thinking about his old
mother.
Mattie carried his bundle of clothes to a mean
room in the Via Nova, where Lepina had
promised to meet him again.

He now awaited her, sitting up with
down, and in fancy, fondling the slender little
figure, whose like had never been seen at Maona
among the hills.
When he had been obliged to part from her at
the street corner, he had signed with sufficient
force to have extinguished a street lamp, had
one been lighted; and he had scratched his
noddle, and given most laughing looks.
The gravity of the step he was about to take
dressed him fully. Not Nanna's wild-eyed fac-
tiousness and threats, nor his employer's orders
to return at once to Maona, nor his own secret
misgivings, could avail to restrain him, for Lep-
rina had promised to go to the ends of the earth
with him.

"Until later!" he had exclaimed, while
Lepina had answered "Goodbye," and walked
off, with her eyes fastened on the gold pendant.
Mattie, when a certain hour had come, fixed
his eyes on his old silver watch, and, as the
out atmosphere gradually darkened, his count-
enance became white with emotion. Then just
as he was about to start, he saw a figure
towards morning again, his face grew more
glowing, until the broad daylight found him as
crazy as a cuckoo. He had a creak in his neck
from constant watching out of the window, and
his eyes were red and sore. He had a creak in
his neck from constant watching out of the window,
and his eyes were red and sore. He had a creak in
his neck from constant watching out of the window,
and his eyes were red and sore.

When the day was over, he was a little tired,
for twenty days or a month he could not be made
to smile. He had been away from his hill about
three months, and he was a little tired, for twenty
days or a month he could not be made to smile.

So that he lounged, a lazy loaf, up quelling at
the sky.
And wished he was the long-winged bird that
slantwise sailed on high.
It's good to work and good to win the wages of
the strong;
Sweet is the hum of labor's hire, and sweet the
workman's song;
But once a year a lad must loaf and dream and
show a straw.
And wish he were a falcon free or a catbird in
the haw!
—Maurice Thompson.

A Real Giant.

It was a warm summer afternoon. Mamma
was sewing on the porch, when John and Jane
were playing in the shade of a large oak tree.
Hearing the children laughing so merrily,
mamma came to see the cause of so much fun.
Finding large, brown teeth, they had turned
him on his back; and Jane was sticking his
stomach with a long piece of grass to make him
kiss it. It certainly was funny to see him draw
up his legs so quickly and so tight to his fat,
pink arms.

Mamma looked on for a moment, and then
said:
"I fear the poor little bug is not laughing or
having a good time. Remember, he can see
you; and to him you are real giants—monsters
with immense round eyes, and mouths as large
as a lion's. Do you wonder he is in a great
fright, and tries to run away?"
While the children were listening to their
mother, the beetle turned over and began rump-
ing off very fast.
"Oh, do let's all follow him, and see where he
lives!" cried Jane. So away they ran in quick
fury, mamma following more slowly, across
the street, over Mr. Palmer's lawn, next door,
and into the garden. There he went under a log,
on lifting the log very quietly and slowly, without
disturbing him, the children found Father Beetle,
with his long antennae, and all the little beetles
crawling eagerly around him.

"I wonder," said mamma, "if he is telling his
family of what he'll tell this morning—how he
was so sed by terrible looking creatures, treated
in a most cruel manner, and just escaped with
his life."
"Dear me!" said Jane, looking sorry. "I
didn't mean to scare him. I suppose a boy or a
girl is a giant to a bug. Better some away, John,
and let him have a rest!"
Mamma was glad to see the children carefully
retrace the log and leave the beetle family to
themselves. She knew Jane and John wished to
be gentle and good to all living things, that
they did not mean to be cruel, but they did not
always know what would hurt the littlest
ones.

Another day John's mother was shocked to
see him thrusting a long brass rod down an
ant hole. Think how terrible that must have
been for the little helpless ants! Quickly she
called him to her, and asked if he would like
to hear a story—a story about giants. There
was nothing the children loved so well. So John
called Jane, and they ran to the porch and
perched themselves on the great arms of
mamma's rocking chair, each fixing a little hat
around her neck and preening their velvet
cheeks against her, to show how they loved
and how good they thought her. This made
their mother feel rested and happy. Then she
began:
"Once upon a time there was a pretty little
house, painted all white, with a climbing rose-
vine over the front, covered with the palest
and sweetest of roses. But sweeter than the
roses were the little children who lived there.
The mother and father were kind and good,
and very happy they were in that
little home. One afternoon the mother, with
the little ones, was sitting before the open fire
place, and roasting apples; when by long
strings from the mantel over the fire, when sud-
denly a great wooden club as long and large as
a forest tree came crashing through the ceiling.
The whole top of the house seemed to be tum-
bling in upon them! The great club came
crashing, pounding and destroying; and the
family, who a moment before had been so
happy, lay bruised and crushed on the floor,
and the pretty home of which they were so fond
was ruined. A great giant had done it as he
passed along!"

"Oh that is not a true story, is it, mamma?"
asked Jane, in distress.
"It couldn't be," mamma replied.
"There are no real giants nowadays."
"It is true there are no giants now of that
kind for my children to fear," answered their
mother, very gravely. "But today my little boy
was a great giant. With a great brass rod he
broke through the roof of an ant's happy home,
—a home that had taken them weeks of hard
work to build—and killed mother and babies,
bruising some, and crushing others, and ruining
their homes."
"O John," cried Jane, "the poor little ants!"
Then both children sat very still and grave,
thinking over mamma's giant story.
At last John put his head down on his mother's
shoulder, and whispered earnestly: "I forgot
that time; I'm so sorry. But I'll try to remember
after this, and, if I am a giant, I can be a good
one, anyway—can I not, mamma?"
And after that the children seldom forgot.
They remembered they were giants, and tried
to be good ones. Instead of hurting or torment-
ing these tiny little creatures, they learned to
love and wait on them; and now John and Jane
know many curious and interesting things about
these insects and their habits—Sunday School
Times.

—Soon after the accession of William III. to
the throne of England, war was begun with
France; this was in 1689, and for the next 125
years the two countries were in continual enmity.
This long struggle was not inaptly named the
Second Hundred Years' War.
—A book printed in England at the end of
the seventeenth century says that Philadelphia
contained many stately houses of brick, and
several fine squares and courts. Between the
principal towns the "watermen constantly ply
their wharves." There are no beggars to be
seen, nor, indeed, have they the least temptation
to take that scandalous trade.
—Before Columbus completed his four
voyages, other important discoveries had been
made. In 1497, the mainland of North America
was discovered by an expedition sailing from
Bristol, England, the leader of whom was John
Cabot. The land first seen by them was Cape
Breton, or Labrador. An entry in the private
journal of the shrewd Henry VII. notes that ten
pounds were given "Lyn that founde the new
laid," not a magnificent sum in light of the fact
that upon this voyage of the Cabots England
later based her claim upon the whole continent
of North America.

The first settlement in Louisiana was in
1699, and New Orleans was founded in 1718.
This was some years after 1689, when La Salle
in his little flotilla of canoes floated down the
Mississippi to its mouth and took possession of
the vast valley in the name of Louis XIV. By
the time Louisiana and New Orleans were
founded, little groups of Frenchmen had settled
down upon the banks of the western rivers.
Detroit was founded by Cadillac in 1701, and
even then early throughout the west the points
of military advantage were chosen.
—What is now the State of New Jersey was
part of the territory claimed by the Dutch under
the name of New Netherlands. Before the
English seized the country, something had been
done to settle this part, although it had not de-
veloped as might have been expected in the fifty
years of Dutch occupancy. The Duke of York,
as proprietor of the territory newly acquired,
ceded in 1664 this southern portion lying be-
tween the Delaware River and the sea to Lord
John Berkeley and Sir George Carteret. The
new province was named New Jersey, or New
Jersey, in honor of Carteret, who as governor of
the Island of Jersey had heroically defended it
against the Parliamentarians during the great
Rebellion.
—From the outbreak of the civil war in
England, in 1642, until the restoration of the
Stuarts in 1660, New England was allowed to
govern itself, but Charles II. was hardly seated
on his throne when he turned his attention to
America. New Haven had received and sheltered
two of the fugitive judges of the court that had
condemned his royal father to death. In order
to effect a protestation, it was now annexed to
Connecticut. The latter colony was given a
liberal charter, which became very dear to the
people, and Rhode Island, too, received a new
charter. It is an interesting fact that Charles
II., who in England gave no sign of loving free
government, should have granted these two
charters, so liberal and good that the people
cherished them and kept them as their funda-
mental constitutions well down into the nine-
teenth century.

kind for my children to fear," answered their
mother, very gravely. "But today my little boy
was a great giant. With a great brass rod he
broke through the roof of an ant's happy home,
—a home that had taken them weeks of hard
work to build—and killed mother and babies,
bruising some, and crushing others, and ruining
their homes."
"O John," cried Jane, "the poor little ants!"
Then both children sat very still and grave,
thinking over mamma's giant story.
At last John put his head down on his mother's
shoulder, and whispered earnestly: "I forgot
that time; I'm so sorry. But I'll try to remember
after this, and, if I am a giant, I can be a good
one, anyway—can I not, mamma?"
And after that the children seldom forgot.
They remembered they were giants, and tried
to be good ones. Instead of hurting or torment-
ing these tiny little creatures, they learned to
love and wait on them; and now John and Jane
know many curious and interesting things about
these insects and their habits—Sunday School
Times.

HISTORICAL.

—Soon after the accession of William III. to
the throne of England, war was begun with
France; this was in 1689, and for the next 125
years the two countries were in continual enmity.
This long struggle was not inaptly named the
Second Hundred Years' War.
—A book printed in England at the end of
the seventeenth century says that Philadelphia
contained many stately houses of brick, and
several fine squares and courts. Between the
principal towns the "watermen constantly ply
their wharves." There are no beggars to be
seen, nor, indeed, have they the least temptation
to take that scandalous trade.
—Before Columbus completed his four
voyages, other important discoveries had been
made. In 1497, the mainland of North America
was discovered by an expedition sailing from
Bristol, England, the leader of whom was John
Cabot. The land first seen by them was Cape
Breton, or Labrador. An entry in the private
journal of the shrewd Henry VII. notes that ten
pounds were given "Lyn that founde the new
laid," not a magnificent sum in light of the fact
that upon this voyage of the Cabots England
later based her claim upon the whole continent
of North America.

The first settlement in Louisiana was in
1699, and New Orleans was founded in 1718.
This was some years after 1689, when La Salle
in his little flotilla of canoes floated down the
Mississippi to its mouth and took possession of
the vast valley in the name of Louis XIV. By
the time Louisiana and New Orleans were
founded, little groups of Frenchmen had settled
down upon the banks of the western rivers.
Detroit was founded by Cadillac in 1701, and
even then early throughout the west the points
of military advantage were chosen.
—What is now the State of New Jersey was
part of the territory claimed by the Dutch under
the name of New Netherlands. Before the
English seized the country, something had been
done to settle this part, although it had not de-
veloped as might have been expected in the fifty
years of Dutch occupancy. The Duke of York,
as proprietor of the territory newly acquired,
ceded in 1664 this southern portion lying be-
tween the Delaware River and the sea to Lord
John Berkeley and Sir George Carteret. The
new province was named New Jersey, or New
Jersey, in honor of Carteret, who as governor of
the Island of Jersey had heroically defended it
against the Parliamentarians during the great
Rebellion.
—From the outbreak of the civil war in
England, in 1642, until the restoration of the
Stuarts in 1660, New England was allowed to
govern itself, but Charles II. was hardly seated
on his throne when he turned his attention to
America. New Haven had received and sheltered
two of the fugitive judges of the court that had
condemned his royal father to death. In order
to effect a protestation, it was now annexed to
Connecticut. The latter colony was given a
liberal charter, which became very dear to the
people, and Rhode Island, too, received a new
charter. It is an interesting fact that Charles
II., who in England gave no sign of loving free
government, should have granted these two
charters, so liberal and good that the people
cherished them and kept them as their funda-
mental constitutions well down into the nine-
teenth century.

—Soon after the accession of William III. to
the throne of England, war was begun with
France; this was in 1689, and for the next 125
years the two countries were in continual enmity.
This long struggle was not inaptly named the
Second Hundred Years' War.
—A book printed in England at the end of
the seventeenth century says that Philadelphia
contained many stately houses of brick, and
several fine squares and courts. Between the
principal towns the "watermen constantly ply
their wharves." There are no beggars to be
seen, nor, indeed, have they the least temptation
to take that scandalous trade.
—Before Columbus completed his four
voyages, other important discoveries had been
made. In 1497, the mainland of North America
was discovered by an expedition sailing from
Bristol, England, the leader of whom was John
Cabot. The land first seen by them was Cape
Breton, or Labrador. An entry in the private
journal of the shrewd Henry VII. notes that ten
pounds were given "Lyn that founde the new
laid," not a magnificent sum in light of the fact
that upon this voyage of the Cabots England
later based her claim upon the whole continent
of North America.

The first settlement in Louisiana was in
1699, and New Orleans was founded in 1718.
This was some years after 1689, when La Salle
in his little flotilla of canoes floated down the
Mississippi to its mouth and took possession of
the vast valley in the name of Louis XIV. By
the time Louisiana and New Orleans were
founded, little groups of Frenchmen had settled
down upon the banks of the western rivers.
Detroit was founded by Cadillac in 1701, and
even then early throughout the west the points
of military advantage were chosen.
—What is now the State of New Jersey was
part of the territory claimed by the Dutch under
the name of New Netherlands. Before the
English seized the country, something had been
done to settle this part, although it had not de-
veloped as might have been expected in the fifty
years of Dutch occupancy. The Duke of York,
as proprietor of the territory newly acquired,
ceded in 1664 this southern portion lying be-
tween the Delaware River and the sea to Lord
John Berkeley and Sir George Carteret. The
new province was named New Jersey, or New
Jersey, in honor of Carteret, who as governor of
the Island of Jersey had heroically defended it
against the Parliamentarians during the great
Rebellion.
—From the outbreak of the civil war in
England, in 1642, until the restoration of the
Stuarts in 1660, New England was allowed to
govern itself, but Charles II. was hardly seated
on his throne when he turned his attention to
America. New Haven had received and sheltered
two of the fugitive judges of the court that had
condemned his royal father to death. In order
to effect a protestation, it was now annexed to
Connecticut. The latter colony was given a
liberal charter, which became very dear to the
people, and Rhode Island, too, received a new
charter. It is an interesting fact that Charles
II., who in England gave no sign of loving free
government, should have granted these two
charters, so liberal and good that the people
cherished them and kept them as their funda-
mental constitutions well down into the nine-
teenth century.

—Soon after the accession of William III. to
the throne of England, war was begun with
France; this was in 1689, and for the next 125
years the two countries were in continual enmity.
This long struggle was not inaptly named the
Second Hundred Years' War.
—A book printed in England at the end of
the seventeenth century says that Philadelphia
contained many stately houses of brick, and
several fine squares and courts. Between the
principal towns the "watermen constantly ply
their wharves." There are no beggars to be
seen, nor, indeed, have they the least temptation
to take that scandalous trade.
—Before Columbus completed his four
voyages, other important discoveries had been
made. In 1497, the mainland of North America
was discovered by an expedition sailing from
Bristol, England, the leader of whom was John
Cabot. The land first seen by them was Cape
Breton, or Labrador. An entry in the private
journal of the shrewd Henry VII. notes that ten
pounds were given "Lyn that founde the new
laid," not a magnificent sum in light of the fact
that upon this voyage of the Cabots England
later based her claim upon the whole continent
of North America.

The first settlement in Louisiana was in
1699, and New Orleans was founded in 1718.
This was some years after 1689, when La Salle
in his little flotilla of canoes floated down the
Mississippi to its mouth and took possession of
the vast valley in the name of Louis XIV. By
the time Louisiana and New Orleans were
founded, little groups of Frenchmen had settled
down upon the banks of the western rivers.
Detroit was founded by Cadillac in 1701, and
even then early throughout the west the points
of military advantage were chosen.
—What is now the State of New Jersey was
part of the territory claimed by the Dutch under
the name of New Netherlands. Before the
English seized the country, something had been
done to settle this part, although it had not de-
veloped as might have been expected in the fifty
years of Dutch occupancy. The Duke of York,
as proprietor of the territory newly acquired,
ceded in 1664 this southern portion lying be-
tween the Delaware River and the sea to Lord
John Berkeley and Sir George Carteret. The
new province was named New Jersey, or New
Jersey, in honor of Carteret, who as governor of
the Island of Jersey had heroically defended it
against the Parliamentarians during the great
Rebellion.
—From the outbreak of the civil war in
England, in 1642, until the restoration of the
Stuarts in 1660, New England was allowed to
govern itself, but Charles II. was hardly seated
on his throne when he turned his attention to
America. New Haven had received and sheltered
two of the fugitive judges of the court that had
condemned his royal father to death. In order
to effect a protestation, it was now annexed to
Connecticut. The latter colony was given a
liberal charter, which became very dear to the
people, and Rhode Island, too, received a new
charter. It is an interesting fact that Charles
II., who in England gave no sign of loving free
government, should have granted these two
charters, so liberal and good that the people
cherished them and kept them as their funda-
mental constitutions well down into the nine-
teenth century.

—Soon after the accession of William III. to
the throne of England, war was begun with
France; this was in 1689, and for the next 125
years the two countries were in continual enmity.
This long struggle was not inaptly named the
Second Hundred Years' War.
—A book printed in England at the end of
the seventeenth century says that Philadelphia
contained many stately houses of brick, and
several fine squares and courts. Between the
principal towns the "watermen constantly ply
their wharves." There are no beggars to be
seen, nor, indeed, have they the least temptation
to take that scandalous trade.
—Before Columbus completed his four
voyages, other important discoveries had been
made. In 1497, the mainland of North America
was discovered by an expedition sailing from
Bristol, England, the leader of whom was John
Cabot. The land first seen by them was Cape
Breton, or Labrador. An entry in the private
journal of the shrewd Henry VII. notes that ten
pounds were given "Lyn that founde the new
laid," not a magnificent sum in light of the fact
that upon this voyage of the Cabots England
later based her claim upon the whole continent
of North America.

ESSENTIALLY A HOME PAPER.
THE HOUSEHOLD COMPANION.
DEPARTMENTS FOR EVERY MEMBER OF THE FAMILY.
BRIGHT, ORIGINAL, CLEAN.
Terms: \$1.00 per annum in advance.
(Specimen Copies free to any address.)
The Household Companion,
Boston, Mass.

Large New Maps of KLONDIKE—ALASKA—CUBA FREE
To all who order the People's Atlas of us now we will send
free maps of Cuba and Alaska, neatly engraved from the latest
governmental surveys and official information. Size of each
map, 14 by 22 inches. The Alaska map accurately locates the
Yukon, its country and other great gold fields in their far-off lands,
and the routes by which they are reached. A brief history of
each country accompanies the maps. See our offer below.

OVER 200 MAPS AND ILLUSTRATIONS
THE PEOPLE'S ATLAS contains over 200 large Maps and Illustrations, and 120
Pages, each page 11 by 14 inches. It gives the Population of each State and Terri-
tory, its Country and other great gold fields in their far-off lands,
and the routes by which they are reached. A brief history of
each country accompanies the maps. See our offer below.

SPLENDID PICTURES embellish
nearly every page of the reading
matter, and faithfully depict
scenes in almost every part of
the world. It contains a vast amount
of historical, physical, educa-
tional, political, and statistical
information, comprising a general
description of the World.

OUR BARGAIN PREMIUM OFFER
The Massachusetts Ploughman, one year,
The Woman's Home Companion, one year,
The People's Atlas, with new maps of Cuba
and Alaska,
All for \$2.50.
This offer is unrivalled....
Address:
MASSACHUSETTS PLOUGHMAN, 3 STATE STREET, BOSTON, MASS

BAGSTER TEACHERS' BIBLES.
"A marvel of perfection."—BISHOP VINCENT. "Just what a Teacher wants."—C. H. SPURGEON
"A perfect help to Bible study."—S. S. TIMES. The Bible used and endorsed by MR. MOODY.
GREAT PREMIUM OFFER!
Bagster Art Bible
PROFUSELY EMBELLISHED WITH
Full Page Half-Tone Illustrations from Photo-
graphs of Paintings of the
WORLD'S GREATEST MASTERS.

INCLUDED IN OUR LIST ARE
DORÉ, RAPHAEL, RUBENS, MURILLO, HOM-
MANN, PLOCHHORN, MUNKACZY,
MICHAEL ANGELO, SCHÖN-
BERGER, and many others.
Price within reach of all
(ABOUT HALF PRICE OF
FORMER ART BIBLES)
Fine Divinity Circuit Binding, Extra-
Large Self Pronouncing Type, Fine
Paper, References, Concordance,
Size of Page, 5 1/2 x 8 3/4 inches.

Advantages of the ART BIBLE.
TEACHERS OF CHILDREN'S CLASSES
In Sunday School can instantly gain
the attention of their scholars by showing
these beautiful pictures and then relating the
story illustrated.
CHILDREN AT HOME, attracted by these
illustrations, will love better the "Sweet
Story of Old," and learn more of Him, who
said: "Suffer the little children to come unto
me."
A REAL WORK OF ART speaks to the
heart and understanding of all. Thus,
the leading events of the Old and New Testa-
ment are made more real and life-like, and
young and old alike learn to love the Book of
the world.

Specimen of Type in Art Bibles and Style F Bagster Teacher's Bibles
Exhortation to all goodness. PHILIPPIANS 4. Liberty of the Phil
reached that for which also I am
apprehended of Christ Jesus.
Brethren, I count not myself to
have apprehended; but this one
thing I do, forgetting those things
which are behind, and reaching forth
unto what is before me.
I press toward the mark, for the prize
of the high calling of God in Christ Jesus.
Let us therefore, as many as have
obtained this grace, let us walk so,
as to receive the grace of God, which
shall be more and more abundantly
unto us, until we shall receive all
these things, which our Lord Jesus
Christ hath purchased for us, when
he gave himself for us, to redeem
unto himself all peculiar sin, unto
himself to cleanse unto himself a
peculiar people, zealous of good
works, as of old.

OUR OFFER
Regardless of the fact that thousands upon thousands of these books have
been sold for \$3.00 each, we have by a lucky hit arranged to do, and will for
a limited period send a copy free, post paid, together with MASSACHU-<

THE HORSE.

Gilt-Edged Breeding.

In controversy with the "horse editor" of one of our local dailies a dispute arose as to whether Ralph Wilkes was a well-bred horse. The "horse editor" claimed that his breeding was not among well-posted horsemen regarded as a gilt edge. I maintained that the produce of a stallion ranking as Red Wilkes does among the great stables of speed, and a mare by Mambrino Patchen, acknowledged the best among brood mares, could not be considered anything but the bluest of blue bloods.

By mutual agreement, the matter is referred to you for decision, this stipulation on my part, if Ralph Wilkes's breeding is not gilt edged, what sire and what dam would produce a colt whose breeding could legitimately be considered as such.

Had "A. F. R." named some other horse whose breeding is known to be compared with Ralph Wilkes, and asked which of the two is better bred, the question could not have been answered more readily. Opinions of well-posted horsemen differ as to what combination of blood lines constitute "gilt-edged" breeding. Some who are considered pretty good authorities would not consider any animal's breeding "gilt-edged" whose pedigree shows a thoroughbred cross, or an unknown one, within three or four removes, unless the animal in question had become greatly distinguished by producing uniform speed, like Alma Mater, for instance.

"Gilt-edged" breeding, as generally understood, means that the pedigree of an animal so classed must contain not only the very best combination of producing lines, but that these lines must come through producing individuals. It is doubtful if any pedigree expert would consider the breeding of any animal "gilt-edged" unless at least the second and third dams are either by sires which are noted producers or the dams themselves, like Dame Winnie, for example, are distinguished producers. There is quite a difference between a trotter that is "well-bred" and one of "gilt-edged" breeding.

Some well-informed trotting-horse men and practical breeders think more highly of a pedigree which has quite a close cross, say the second or third remove, of some much successful long-distance race winners as Boston, Lexington, Sir Henry, American Eclipse, Trustee, Wagner, Grey Eagle, Revenue, Planes, Williams, Belmont, Glenoe and others whose names appear in the pedigrees of first-class trotters, than of a pedigree made up exclusively of recognized trotting crosses.

During the past few years horsemen and pedigree experts have become better acquainted than they formerly were with the law of heredity, and the chances of atavism, or the reproduction of qualities which characterized some more or less remote ancestor. The more light they get upon this subject, whether by practical experience, or from studying the works upon it by the most noted authors, the more strongly they become impressed with the idea that the longer the unbroken chain of producers or demonstrated speed-producing crosses in the pedigree of the dam, the greater the probability that her offspring will possess great speed capacity.

The popularity or value of any sire, or any strain of blood, is measured by the ability which that particular sire or strain has shown to produce extreme, or at least race-winning speed, with uniformity. By common consent during the past few years, or ever since the standard was adopted, stallions have been ranked according to the number of their sons and daughters that have made records in standard time, rather than by the number of genuine race winners which they have sired, so we will analyze and weigh the crosses in Ralph Wilkes's pedigree by that standard.

There are but very few well-posted horsemen who will not admit that, opportunities considered, George Wilkes was the greatest son of Rydyk's Hambletonian as a perpetuator of light-harness speed. No other horse that ever lived has yet got so many fast trotters and pacers, and the sires and dams of so many fast light-harness performers in an equal period of time, as George Wilkes got after he was taken to Kentucky in 1873.

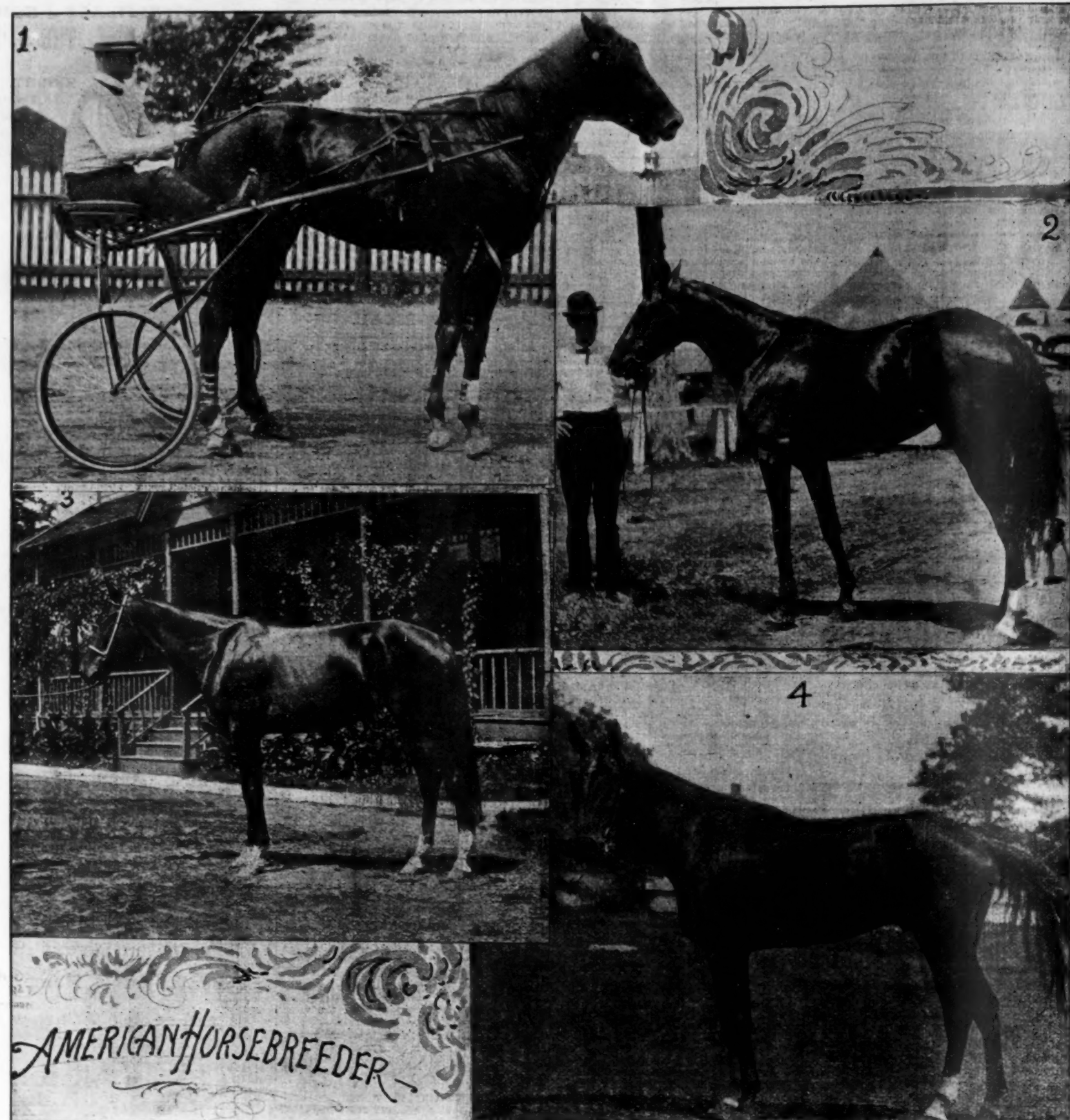
All well-posted horsemen know that Rydyk's Hambletonian was the greatest progenitor of light-harness speed of his day. The tables and records show that, and they indicate, too, that George Wilkes was superior to Rydyk's Hambletonian in this respect. The table also shows that as a sire of standard performers Red Wilkes now stands at the head of all the sons of George Wilkes. This being the case it is apparent that on the paternal side the breeding of Ralph Wilkes is "gilt edged."

Turning to the dam of Ralph Wilkes (208) we find that she was Mary Mays, and that her sire was Mambrino Patchen. As a sire of dams of trotters with records of 2:30 or better, Mambrino Patchen outranks any other sire that ever lived. Daughters of Mambrino Patchen bred to George Wilkes and his sons have produced a greater number of fast light-harness performers than have produced by any other stallion and his sons. The Wilkes-Mambrino Patchen cross is among the most popular and best that can be found today, provided that, back of the Mambrino Patchen cross are others of the best of producer strains. As his Ralph Wilkes was by Red Wilkes and his dam was Mary Mays, by Mambrino Patchen, Ralph Wilkes was certainly a well-bred trotter.

The second dam of Ralph Wilkes was by McConathy's Sarpodon, a thoroughbred son of imported Sarpodon. We do not remember to have seen this McConathy's Sarpodon cross in the pedigree of any other fast trotter. Whether the cross has ever been tested in other cases or not we are unable to say. The name McConathy's Sarpodon is not found in the great table of 2:30 performers. Neither as a trotter or a sire of 2:30 speed. No son of his has to our knowledge ever sired a 2:30 trotter, and none of his daughters ever produced anything to take a record in standard time. For the above reasons, pedigree experts would be disposed to look beyond the Sarpodon cross for the element, or elements, that made it possible for Mary Mays to produce a faster trotter than has been produced by any other daughter of Mambrino Patchen.

Taking into account what her sire has failed to do, whether from lack of opportunity or ability, in the way of contributing to 2:30 speed, the second dam of Ralph Wilkes would not be considered by many horsemen well posted in pedigrees even fairly well bred. Yet the dam of Lexington, the greatest four-mile race horse of his day, was by imported Sarpodon, the sire of McConathy's Sarpodon, and the Lexington cross is found in the pedigrees of several very fast trotters. The second dam of Lexington, however, was by Sumpter, a son of Sir Archy, the most successful perpetuator of race-winning speed in America in his day.

By analyzing the pedigree of the dam of McConathy's Sarpodon, however, blood elements will be discovered that are found in the pedigrees of some of the famous long-



(1)-CRESCUS, 2:09 3-4. (2)-GRACE HASTINGS, 2:05. WORLD'S CHAMPION TROTTER TO WAGON, 2:09 1-2. (3)-MATTIE PATTERSON, 2:09 1-4. (4)-BATTLETON, 2:09 3-4.

distance race horses whose names appear in the pedigrees of several noted light-harness performers. The dam of McConathy's Sarpodon was Caroline Scott. Her sire was Sir Archy of Transport, also known as Sir Archy Montorio. Sir Archy of Transport was by Sir Archy, the best son of imported Diomed, and his dam was Transport. The latter was by Virginia, and he, too, was a son of Diomed.

The dam of Caroline Scott was Ophelia, by Wild Medley, and the same Ophelia, when mated with Woodpecker, son of Brandy, by Sir Archy, produced the famous four-mile race horse Gray Eagle, sire of the second dam of Piedmont (217). Kentucky Wilkes (212), etc. The dam of Ophelia was also by Sir Archy, and out of Lady Chesterfield, by imported Diomed.

By this it will be seen that the dam of McConathy's Sarpodon was as strongly imbued to the Diomed strain as was the dam of the famous brood mare sire Mambrino Patchen, which got Mary Mays, the dam of Ralph Wilkes. While it cannot be proven that the Sarpodon cross endowed Mary Mays with qualities which enabled her to produce a faster trotter than any other daughter of Mambrino Patchen, it is evident that she got this ability from some source, and it is probable, to say the least, that part of it came from this son of Sarpodon. Two things are certain: First, the dam of Mary Mays was by McConathy's Sarpodon. Second, Mary Mays produced a faster trotter than Red Wilkes has not from any other daughter of Mambrino Patchen, and a faster one than any other daughter of Mambrino Patchen has ever produced.

The third dam of Ralph Wilkes was by Hedge's Copperbottom. The Copperbottom cross is not a prominent factor in the pedigrees of any trotters that have made remarkably fast records. This Hedge's Copperbottom has been no more fortunate as an aid to 2:30 trotting speed than the dam of McConathy's Sarpodon. It would be considered as adding very little, if any, value to the pedigree of Ralph Wilkes. It is not a popular cross, yet those who have great faith in a pacing cross may be disposed to give it some credit. The third dam of Ralph Wilkes, like his second dam, was not even fairly well bred.

The fourth dam of Ralph Wilkes was by Woodford, a thoroughbred son of Kossuth, by Sir Archy. Woodford never got a 2:30 performer, and it is not likely that any son of his ever sired one. Two of his daughters, however, when mated with trotting stallions produced standard speed. They were Woodbine and Sally Woodford. The former produced Wedge-wood (219) and Woodford Mambrino (214). Sally Woodford was the dam of Brignol (220). The Woodford cross undoubtedly contributed more to the ability of Mary Mays as a speed producer than either the Sarpodon or Copperbottom or both combined, yet it would not be considered a "gilt-edged" cross by any unprejudiced pedigree expert of good judgment.

The fifth dam of Ralph Wilkes was by Downing's Bay Messenger, a descendant of imported Messenger, that was probably inherited to the Messenger strain. His sire was Harpune, a large bay horse which was taken from New Jersey to New Hampshire, and which left some excellent stock in the Granite State. Harpune was by Bishop's Hambletonian, a thoroughbred son of imported Messenger, but the claim was never proven to our knowledge. Neither was it ever questioned, so far as we know, by any one who knew or pretended to know the facts.

Downing's Bay Messenger got the trotter Jim Porter (saddle record 2:38). The dam of Clark Chief, one of the best sons of Mambrino Chief, opportunities considered.

was Little Nora, by Downing's Bay Messenger, and Big Nora, a full sister of Little Nora, produced McDonald's Mambrino. This Bay Messenger cross is found remarkably in the pedigrees of quite a number of fast trotters. Yet Downing's Bay Messenger could not be considered the best trotting sire of his day. He was far inferior to Andrew Jackson as a perpetuator of trotting speed, and Haris Hambletonian, foaled some seven years earlier than Downing's Bay Messenger, was much superior to him. The latter was by Bishop's Hambletonian.

Though Ralph Wilkes was a well-bred horse, yet as neither his second, third, fourth nor fifth dams were producers, nor by producing sires, his pedigree would not in all probability be considered "gilt edged" by any pedigree expert of good judgment. It is a fact, however, that Ralph Wilkes is the fastest trotter by the records yet sired by Red Wilkes, and the fastest trotter yet produced by any daughter of the renowned brood mare sire Mambrino Patchen.

It is probable, too, that he lived Ralph Wilkes would have proven a more uniform sire of fast trotters than any other son of Red Wilkes. If we remember correctly only 33 of his foals lived to reach maturity. Eleven of these, or 33 per cent of the whole, have already taken records of 2:30 or better, three of them better than 2:30, and six of them in 2:31 or better. Several of those which have not been raced have shown well-authenticated trials in 2:30 or better, and some of them below 2:30. —American Horse Breeder.

Veterinary Department.

Questions and Answers.

Subscriber, N. H.: I have a three-year-old mare that has lately developed a slight enlargement on the front of her hock joint which some call a "sprain." It is not painful. Kindly prescribe treatment and confer a favor.

Answer: I should strongly advise you to blister the mare's hock at her age you may be able to absorb the enlargement and you will certainly strengthen the joint. About two applications at intervals of three weeks between ought to be sufficient.

M. A. N., Connecticut: Kindly advise treatment for a chest horse that is getting hot forward and somewhat inclined to stumble. He does not come out in the blink up as he used to, and he is not at all knee sprung.

Answer: Undoubtedly your horse is developing some serious trouble, and your best plan would be to have both shoes removed, position his feet for a few days, then blister both feet several times at intervals of two weeks between. In this way you may control the trouble and restore him to soundness.

Subscriber, Massachusetts: My black gelding interferes with one of his hind ankles, and it is swollen. When driven the swelling goes down, but standing over night causes it to reappear. I have tried three or four remedies, but they have not done him any good. Any suggestion you may give me will be much appreciated.

Answer: I would suggest that you apply (an ice poultice, which is made by crushing some ice in a small bag and binding it on to the part affected, for four nights in succession. This will relieve all fever, etc. Then try the following lotion: Powdered acetate lead, one ounce; water, one quart. Dissolve, and bathe the parts well at night. Follow this by a dry bandage. Persist in this treatment and you will relieve the trouble. If it does not you will have to blister the ankle.

K. L. I. I have a mare that about six weeks ago picked up a nail in one of her hind feet, and although she stands on the foot fairly well, she has been lame since. It is getting worse, which seems to be growing outside of the hoof, part of the foot. The ankle is also somewhat swollen and she seems to be weak on it. Her knees are swollen and they seem to hurt her some. Would you advise blistering the heels and ankles and also the knee, and if so how often?

Answer: After you have reduced the local fever by the use of very cold applications then apply the oil to the parts affected and repeat in two or three weeks. This will remove all soreness and guard against permanent lameness.

W. A. P., Vermont: I have a five-year-old colt that has been in the stable since February by getting down in her stall. The accident left her with a thorough-pin about the size of a wall-

nut both inside and out. Please advise me how to treat it, and if in your opinion it can be removed.

Answer: I have not much faith in removing thoroughpins, but to strengthen a joint and hasten absorption I would suggest that you blister the joint on both sides and repeat two or three times at intervals of two weeks between. This will cause contraction of the tissues to a certain extent and may prevent it from growing larger.

P. S., Rhode Island: I have a horse that I tried both from inside and out, and they were swollen on the inside. I have bathed them until all fever has disappeared and then I blistered them. One of the blisters has entirely disappeared, and it is down to its natural size, but the other is still enlarged and is at present. Any advice you may give will be much appreciated.

Answer: I think it would be well to repeat the blistering about twice, as this treatment ought to quicken absorption. By this process you eliminate a certain amount of material that you cannot get rid of any other way. After the blisters have healed you can continue the enlargement and perhaps prevent a permanent swelling.

F. H., New York: I have just purchased a very fat horse and find that his hind ankles are cooked. The front ones are all right. I note his toes are very short. Would it help his ankles to let his toes grow? Any suggestion you may give will be thankfully received.

Answer: By keeping the toes short you lessen the leverage. I would suggest that you have

the shoes catened out quite long behind with a fairly high heel calk. This will take off some of the strain. Also try the following lotion after driving: Powdered acetate lead, one ounce; water, four quarts. Mix and use freely on the ankles. Then use a dry bandage. This treatment will strengthen the parts and perhaps obviate the trouble.

Lexington (Ky.) Notes.

Although the track has been quite muddy and unfit for work during a good deal of the week, a great deal of training has been done and a very considerable number of the horses are at a consequence beginning to show high form. For the first time during the season a horse has worked in 2:12, and as will appear in the present report many very creditable miles have been made. The first animal to go in 2:12 was American, the big 2:12 faced bay gelding driven by Dick Curtis. He descends from the old Pocahontas stock and is a son of Kofie N., while on the dam's side he carries the blood of Harold through one of the sons of that horse. He went the last quarter of this mile in good style, though not quite so fast as some of his previous quarters.

The track was on that day quite rough, and the performance was an extremely good one. Will Evans drove his black 7-year-old pacer filly by Constantine a mile in 2:37. T. W. Fries drove a four-year-old trotter to a mile in 1:06. In one of their workouts together Dr. Robin-

son (now trotting) and Dandy, the Bosworth pacer gelding by Marie Oriole, dam by Young Jim, went the last quarter in 33 seconds. The latter is the family horse I spoke of a week or two ago.

An error crept into last week's report. Lorena Lorne, black mare, by Norris, was credited with a mile in 2:07 1/4. Of course this should have been 2:37 1/4.

Bert Herr, the five-year-old brother to Charley Herr, trotted a mile in 2:35 for David Cahill. He made the last half in 1:10.

May Day, black mare, by Abdallah Mambrino, driven by Thayer, trotted a last quarter in 31 1/2 seconds. She also trotted a full mile in 2:18.

Dandy, bay gelding, paced a mile in 2:35, last quarter in 38 seconds, for Richard Curtis. He afterwards went in 2:30 1/2.

Don Oh So, brown horse (4), by O. H. So, paced a mile for Scott Hudson in 2:16 1/2, last quarter in 31 1/2 seconds.

Laura D., brown mare, by Gen. Hancock, paced a mile for Cromie in 2:33 1/2, last half in 1:08.

Eagle Finnegan trotted an easy mile for Scott Hudson in 2:30, last quarter in 33 1/2 seconds. He is working as sound and as good as he ever did in his life.

Edward S., chestnut gelding, by Blunder Wilkes, paced a mile for Hudson in 2:34, last quarter in 38 seconds.

Joe Thayer drove 11/16 m, bay gelding (4), by Simonson, dam by Curtis, to the half in 1:07, making each quarter in 33 1/2 seconds.

Silver looker, chestnut gelding (5), by Simonson, dam, Cotilla (3:23), by Alexar, was killed in the pasture by lightning last week. He belonged to Joe Thayer and was a promising young horse.

W. W. Freeman drove Black Beauty, black gelding, by Dark Night, a mile in 2:27, half in 1:11, last quarter in 33 1/2 seconds.

Mike Bowman drove Miss Frances, brown mare (5), by Cadmus J., dam, dam of Lake Erie, a mile in 2:34 1/2, last quarter in 34 1/2 seconds.

Joe Cromie drove Lorena, chestnut mare, by Norris, dam by Kiehloneer, a mile in 2:35, last quarter in 34 1/2 seconds.

Charley Herr, bay horse (4), by Alfred G., dam, Beesie Huntington, by Happy Traveler, trotted a mile in 2:31 1/2 for David Cahill.

Oward Silver, chestnut horse (4), by Oward, dam, Silver Maid (sister to Kentucky Union), by Aberdeen, trotted a mile in fine style for T. W. Fries in 2:17 1/2. This is the fastest mile he has worked this year.

Joe Cromie worked Lorena Lorne, black mare, by Ingelwood, a mile in 2:28 1/2.

Joe Thayer drove The Tramp, a two-year-old brother to Jay Hawke (3:14 1/4), a mile in 2:36 1/2, last quarter in 35 1/2 seconds. We have yet heard of no other two-year-old that has been as fast a mile as this.

The Bondman, brown colt (3), by Baron Wiles, dam, Sorrento (dam of Jay Hawke), went a mile for the driver in 2:24.

King Crystal, black horse, by King Nutwood, dam, Crystal (dam of Out Glass, Crystalline, etc.), by Crittenden, went the last half of a mile in 1:10, last quarter in 38 seconds.

Mary D., bay mare, by Cheyenne, trotted a mile for Joe Cromie in 2:31 1/2, last quarter in 35 1/2 seconds.

Nora L., bay mare, by Jake, son of Messenger Chief, dam by a son of Bourbon Wilkes, paced several good miles, one in 2:16, last quarter in 38 seconds, and another in 2:14 1/2, last half in 1:05, last quarter in 38 seconds.

Miss Duke, the Simmonson four-year-old mare purchased by G. W. Leavitt last spring, trotted a mile in 2:18. She had previously trotted in 2:19 1/2. She finished the last quarter in each mile in 34 1/2 seconds.

Hamp Wilson and Scott Hudson, driving Annie Thornton and Elsie Boy together, made the mile in 2:16 1/2, last quarter in 33 1/2 seconds.

Lee Darnaby drove his four-year-old mare by King Nutwood, dam by Abdallah Mambrino, in 2:29.

Don't you believe that German Peat Moss is an economical and healthy horse bedding? Ask O. B. Barrett, 48 North Market street, to send you testimonials.

\$100 Reward
for any case of colic, or
any other disease of the
stomach or bowels of
horses or mules.

Tuttle's Elixir
will cure, for all cases of
colic, or any other disease
of the stomach or bowels,
in all cases of colic, or
any other disease of the
stomach or bowels of
horses or mules.

DR. S. A. TUTTLE,
Sole Proprietor,
107 North 2nd Street, St. Louis, Mo.

IT'S A CUTE TRICK—
"Don't let the horse get the best of you."
PAGE WOVEN WIRE FENCE CO., ARDRETT, MO.

A GOOD WIND MILL.
Lasts a life time.
Don't buy a poor one.
IMPERIAL
with patent frame and
valuable iron frame, single
or double, 10, 12, 14, 16, 18,
20, 22, 24, 26, 28, 30, 32,
34, 36, 38, 40, 42, 44, 46, 48,
50, 52, 54, 56, 58, 60, 62, 64,
66, 68, 70, 72, 74, 76, 78, 80,
82, 84, 86, 88, 90, 92, 94,
96, 98, 100, 102, 104, 106,
108, 110, 112, 114, 116, 118,
120, 122, 124, 126, 128, 130,
132, 134, 136, 138, 140, 142,
144, 146, 148, 150, 152, 154,
156, 158, 160, 162, 164, 166,
168, 170, 172, 174, 176, 178,
180, 182, 184, 186, 188, 190,
192, 194, 196, 198, 200, 202,
204, 206, 208, 210, 212, 214,
216, 218, 220, 222, 224, 226,
228, 230, 232, 234, 236, 238,
240, 242, 244, 246, 248, 250,
252, 254, 256, 258, 260, 262,
264, 266, 268, 270, 272, 274,
276, 278, 280, 282, 284, 286,
288, 290, 292, 294, 296, 298,
300, 302, 304, 306, 308, 310,
312, 314, 316, 318, 320, 322,
324, 326, 328, 330, 332, 334,
336, 338, 340, 342, 344, 346,
348, 350, 352, 354, 356, 358,
360, 362, 364, 366, 368, 370,
372, 374, 376, 378, 380, 382,
384, 386, 388, 390, 392, 394,
396, 398, 400, 402, 404, 406,
408, 410, 412, 414, 416, 418,
420, 422, 424, 426, 428, 430,
432, 434, 436, 438, 440, 442,
444, 446, 448, 450, 452, 454,
456, 458, 460, 462, 464, 466,
468, 470, 472, 474, 476, 478,
480, 482, 484, 486, 488, 490,
492, 494, 496, 498, 500, 502,
504, 506, 508, 510, 512, 514,
516, 518, 520, 522, 524, 526,
528, 530, 532, 534, 536, 538,
540, 542, 544, 546, 548, 550,
552, 554, 556, 558, 560, 562,
564, 566, 568, 570, 572, 574,
576, 578, 580, 582, 584, 586,
588, 590, 592, 594, 596, 598,
600, 602, 604, 606, 608, 610,
612, 614, 616, 618, 620, 622,
624, 626, 628, 630, 632, 634,
636, 638, 640, 642, 644, 646,
648, 650, 652, 654, 656, 658,
660, 662, 664, 666, 668, 670,
672, 674, 676, 678, 680, 682,
684, 686, 688, 690, 692, 694,
696, 698, 700, 702, 704, 706,
708, 710, 712, 714, 716, 718,
720, 722, 724, 726, 728, 730,
732, 734, 736, 738, 740, 742,
744, 746, 748, 750, 752, 754,
756, 758, 760, 762, 764, 766,
768, 770, 772, 774, 776, 778,
780, 782, 784, 786, 788, 790,
792, 794, 796, 798, 800, 802,
804, 806, 808, 810, 812, 814,
816, 818, 820, 822, 824, 826,
828, 830, 832, 834, 836, 838,
840, 842, 844, 846, 848, 850,
852, 854, 856, 858, 860, 862,
864, 866, 868, 870, 872, 874,
876, 878, 880, 882, 884, 886,
888, 890, 892, 894, 896, 898,
900, 902, 904, 906, 908, 910,
912, 914, 916, 918, 920, 922,
924, 926, 928, 930, 932, 934,
936, 938, 940, 942, 944, 946,
948, 950, 952, 954, 956, 958,
960, 962, 964, 966, 968, 970,
972, 974, 976, 978, 980, 982,
984, 986, 988, 990, 992, 994,
996, 998, 1000, 1002, 1004,
1006, 1008, 1010, 1012, 1014,
1016, 1018, 1020, 1022, 1024,
1026, 1028, 1030, 1032, 1034,
1036, 1038, 1040, 1042, 1044,
1046, 1048, 1050, 1052, 1054,
1056, 1058, 1060, 1062, 1064,
1066, 1068, 1070, 1072, 1074,
1076, 1078, 1080, 1082, 1084,
1086, 1088, 1090, 1092, 1094,
1096, 1098, 1100, 1102, 1104,
1106, 1108, 1110, 1112, 1114,
1116, 1118, 1120, 1122, 1124,
1126, 1128, 1130, 1132, 1134,
1136, 1138, 1140, 1142, 1144,
1146, 1148, 1150, 1152, 1154,
1156, 1158, 1160, 1162, 1164,
1166, 1168, 1170, 1172, 1174,
1176, 1178, 1180, 1182, 1184,
1186, 1188, 1190, 1192, 1194,
1196, 1198, 1200, 1202, 1204,
1206, 1208, 1210, 1212, 1214,
1216, 1218, 1220, 1222, 1224,
1226, 1228, 1230, 1232, 1234,
1236, 1238, 1240, 1242, 1244,
1246, 1248, 1250, 1252, 1254,
1256, 1258, 1260, 1262, 1264,
1266, 1268, 1270, 1272, 1274,
1276, 1278, 1280, 1282, 1284,
1286, 1288, 1290, 1292, 1294,
1296, 1298, 1300, 1302, 1304,
1306, 1308, 1310, 1312, 1314,
1316, 1318, 1320, 1322, 1324,
1326, 1328, 1330, 1332, 1334,
1336, 1338, 1340, 1342, 1344,
1346, 1348, 1350, 1352, 1354,
1356, 1358, 1360, 1362, 1364,
1366, 1368, 1370, 1372, 1374,
1376, 1378, 1380, 1382, 1384,
1386, 1388, 1390, 1392, 1394,
1396, 1398, 1400, 1402, 1404,
1406, 1408, 1410, 1412, 1414,
1416, 1418, 1420, 1422, 1424,
1426, 1428, 1430, 1432, 1434,
1436, 1438, 1440, 1442, 1444,
1446, 1448, 1450, 1452, 1454,
1456, 1458, 1460, 1462, 1464,
1466, 1468, 1470,